



DEPARTMENT OF THE ARMY
UNITED STATES ARMY MISSILE COMMAND
REDSTONE ARSENAL, ALABAMA 35898

*Amendment
Send to
Region 2*

AMSMI-XO *185-0046*

8 March 1985

SUBJECT: Amendment To Nuclear Regulatory Commission License No. 01-00126-17

THRU: Command

US Army Materiel Command
5001 Eisenhower Ave.
Alexandria, VA 22333-0001

Steger 21 Mar 85

TO: Director

Office of Nuclear Material Safety and Safeguards
US Nuclear Regulatory Commission
Washington, DC 20555

1. Reference Nuclear Regulatory Commission License No. 01-00126-17, Expiration date, 30 April 1986.
2. The above referenced license is issued to the US Army Missile Command for the possession of up to 15 millicurie of Nickel- 63 in the form of foil used in a Perkin-Elmer Model 330-0119 electron capture detector. Item 12 of the license identified Mr. Herbert D. Steger as one of the individual's who may use or supervise the use of this source. Mr. Steger is no longer the Radiation Protection Officer at MICOM.
3. It is requested that the license be amended by replacing Mr. Steger's name with that of Mr. Jay L. Henson, who is the current MICOM Radiation Protection Officer. A copy of his resume is enclosed. Mr. Henson may be contacted in the MICOM Safety Office at (205) 876-8136 or AV 746-8136.
4. MICOM- Providing Leaders the Decisive Edge.

FOR THE COMMANDER:

Francis E. Hart
FRANCIS E. HART
Chief
Safety Office

1 Encl

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FEE EXEMPT

JAY L. HENSON, Health Physicist, US Army Missile Command (MICOM), Redstone Arsenal, Alabama

a. Education:

(1) B.S. - Mercer University, Macon, Georgia - 1976. Major: Biology. Minor: Chemistry.

(2) Post Graduate Study - University of Georgia, Athens, Georgia, January 1977 - March 1978. Major Fields of Study: Physiology/Biochemistry.

b. Professional Experience:

(1) July 1978 - January 1979 - Royster Fertilizer Co., Athens, Georgia. Chemist - Analytical Chemistry Laboratory. Responsible for operating and maintaining chemical laboratory for the analysis of raw materials and final products of fertilizer manufacturing facility.

(2) January 1979 - July 1979 - DARCOM Field Safety Activity, Charlestown, Indiana. Safety Specialist Intern - Received formal training in all aspects of safety and occupational health in order to function as a safety specialist for the Department of the Army.

(3) July 1979 - May 1981 - Radford Army Ammunition Plant, Radford, Va. Safety Specialist - Responsible for monitoring a contractor's safety program for production of various munitions, industrial operations, and construction. Insured compliance of safety program with all applicable Army, Federal, and state safety regulations to include OSHA and NRC regulations. Reviewed non-destructive test areas for compliance with radiation protection regulations.

(4) May 1981 - June 1984 - Anniston Army Depot, Anniston, Alabama. Radiation Protection Officer/Health Physicist. Responsible for establishing, implementing, and enforcing the policies and responsibilities for the protection of personnel and the control, licensing, transportation and disposal of radioactive material as well as ionizing and non-ionizing radiation producing devices. Implemented Federal, state, and Army directives and developed local safety regulations and procedures to safeguard personnel and equipment from harmful effects of ionizing/non-ionizing radiation. Performed health physics surveys in radioactive material storage/maintenance facilities and industrial x-ray operations. Performed safety inspections of class I through class IV laser facilities. Assisted in the design of facilities for industrial x-ray and laser operations.

(5) June 1984 - Present - US Army Missile Command (MICOM), Redstone Arsenal, Alabama. Health Physicist/Radiation Protection Officer. Responsible for planning, implementing and operating a Radiological Safety Program for MICOM and other attached or assigned organizations. Health physics functions are performed for on-post operations involving radioactive materials and radiation producing devices as well as support for radioactive missile system commodities used worldwide. Prepare and review applications for DA authorizations and NRC licenses, establish and maintain radiation protection records and files.

Encl 1

c. Formal Training in Radiation Protection Methods, Measurements and Effects:

	<u>Duration of Training</u>	<u>On-the- Job</u>	<u>Formal Course</u>
(1) Radiological Safety and Health, DARCOM Field Safety Activity, IN. June, 1979	3 Days	NO	YES
(2) Radiological Safety and Health, Anniston Army Depot, Anniston, AL. June-July 1981	4 Weeks	YES	NO
(3) Radiological Safety Course Chemical School, Ft. McClellan, AL. July-Aug 1981	3 Weeks	NO	YES
(4) Basic Course in Health Physics, Louisiana State University, Baton Rouge, LA. Dec 1981	1 Week	NO	YES
(5) Laser-Microwave Hazards Workshop, US Army Environmental Hygiene Agency, Aberdeen Proving Ground, MD. March 1982	1 Week	NO	YES
(6) Applied Health Physics Oak Ridge Assoc. Universities, Oak Ridge, TN, May-June 1983	5 Weeks	NO	YES
(7) Radiation Emergency Planning and Management, Radiation Management Corp., Ft. Belvoir, VA. January 1984	1 Week	NO	YES
(8) Health Physics Aspects of Depleted Uranium, Pacific Northwest Lab. Ft. Belvoir, VA March 1984	1 Week	NO	YES

	<u>Duration of Training</u>	<u>On-the- Job</u>	<u>Formal Course</u>
(9) Transportation of Radioactive Materials, Afftrex, LTD, Fort Belvoir, VA, January 1985	1 Week	NO	YES

d. Experience with Radiation

(1) Radioactive Material

	<u>ISOTOPE</u>	<u>MAXIMUM ACTIVITY</u>	<u>DURATION OF EXPERIENCE</u>	<u>TYPE OF USE</u>
a.	H ³	10 Ci	3 Years	For items a-d, Storage and Maintenance of radioactive commodities; health physics surveys and wipe tests (Anniston Army Depot)
b.	Ra ²²⁶	15 uCi	3 Years	
c.	Pm ¹⁴⁷	3 mCi	3 Years	
d.	Th ²³²	4.89 mCi	3 Years	
e.	U ²³⁸	0.005 uCi	3 Years	For items e-j, Calibration of radiac equipment; health physics surveys and leak tests (Anniston Army Depot)
f.	Cl ³⁶	0.0227 uCi	3 Years	
g.	Sr-Y ⁹⁰	100 mCi	3 Years	
h.	Cs ¹³⁷	12.0 Ci	3 Years	
i.	Co ⁶⁰	10.0 Ci	3 Years	Electron Capture Detector, health physics surveys and leak tests (Anniston Army Depot)
j.	Pu ²³⁹	1.4 uCi	3 Years	
k.	Ni ⁶³	15 mCi	2 Years	
l.	H ³	10 Ci	June 84-Present	Calibration
m.	Co ⁶⁰	150 Ci	June 84-Present	Radiography
n.	Sr-Y ⁹⁰	200 mCi	June 84-Present	Calibration
o.	Ni ⁶³	15 mCi	June 84-Present	Electron Capture Detector
p.	Po ²¹⁰	40 mCi	June 84-Present	Static Eliminator
q.	Pu ²³⁹	1.4 uCi	June 84-Present	Calibration
r.	Kr ⁸⁵	5 mCi	June 84-Present	Calibration
s.	Cs ¹³⁷	12.0 Ci	June 84-Present	Calibration

(For Items 1-s, health physics duties, US Army Missile Command, Redstone Arsenal, AL)

(2) Ionizing Radiation Producing Devices

	<u>SOURCE TYPE</u>	<u>mA</u>	<u>KVp</u>	<u>DURATION</u>	<u>LOCATION</u>
a.	Industrial X-ray	3	200	3 Years	Anniston Army Depot (ANAD)
b.	Industrial X-ray	10	300	3 Years	ANAD
c.	Linear Accelerator	-	2 MeV	1 Year	ANAD
d.	X-ray Diffraction	50	60	June 84- Present	US Army Missile Command (MICOM)
e.	Industrial X-ray	1-30	140-320	June 84- Present	MICOM
f.	Betatron	-	25 MeV	June 84- Present	MICOM